



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005



Job No.: CTCE/BBMP/W.No.11/NK/CSR-11/993r/CEMENT/2015-16

Date: 17.11.2015

TEST REPORT ON CEMENT

* CUSTOMER	:	Asst. Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
*AGENCY	:	Mr. N. Keerthi, #66, Anandappa Building Hospital road, Yelahanka, Bangalore - 64.
*NAME OF THE WORK	:	Development and concrete road works at Naidu Layout in Ward No.11 (Kuvempunagara), Vidyaranyapura Sub Division, BBMP, Bangalore.
*REFERENCE	:	EE/BTP/BBMP/E-PMT/10(16940)/WO/74/2015-16 Dated: 06.05.2015
SAMPLE ID	:	Cement - Sample 2
SAMPLE RECEIVED ON	:	14.11.2015
PERIOD OF TESTING	:	14.11.2015 to 17.11.2015



The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	30.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	150 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	480 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

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VIDYARANI P.K.
Technical Manager



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Job No.: CTCE/BBMP/W.No.11/NK/CSR-11/993r/SAND-Gradation/2016-17

: 17.11.2015

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

* **Customer** : Asst. Executive Engineer, Vidyanarayapura Sub Division, BBMP, Bangalore.

* **Agency** : Mr. N. Keerthi,
#66, Anandappa Building Hospital road, Yelahanka, Bangalore – 64.

* **Name of Work** : Development and concrete road works at Naidu Layout in Ward No.11
(Kuvempunagara), Vidyanarayapura Sub Division, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-PMT/10(16940)/WO/74/2015-16 Dated: 06.05.2015

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates – Sample 2

Sample Received on : 14.11.2015

Date of Testing : 17.11.2015



Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	94.00	90-100	90-100	90-100	95-100
2.36	76.00	60-95	75-100	85-100	95-100
1.18	54.00	30-70	55-90	75-100	90-100
600 Micron	27.50	15-34	35-59	60-79	80-100
300 Micron	16.00	5-20	8-30	12-40	15-50
150 Micron	5.80	0-10	0-10	0-10	0-15

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Remarks : This sample is under Zone-I specific limits.

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ME-11
[Signature]

VIDYARANI P.K.
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: 17.11.2015

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

* **Customer** : Asst. Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

* **Agency** : Mr. N. Keerthi,
#66, Anandappa Building Hospital road, Yelahanka, Bangalore – 64.

* **Name of Work** : Development and concrete road works at Naidu Layout in Ward No.11
(Kuvempunagara), Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-PMT/10(16940)/WO/74/2015-16 Dated: 06.05.2015

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (40mm) – Sample 2

Sample Received on : 14.11.2015

Date of Testing : 17.11.2015



Total Wt. of Aggregates in gms= 5000

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.40	95-100	85-100
20	32.36	30-70	0-20
10	13.84	10-35	0-5
4.75	3.34	0-5	-



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Remarks : This sample is under Graded specific limits.

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Job No.: CTCE/BBMP/W.No.11/NK /STEEL/2015-16

17.11.2015

TEST REPORT ON REINFORCEMENT STEEL

Customer : **Asst. Executive Engineer**, Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Mr. N. Keerthi**,
#66, Anandappa Building Hospital road, Yelahanka, Bangalore – 64.

Name of the Work : Development and concrete road works at Naidu Layout in Ward No.11 (Kuvempunagara), Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-PMT/10(16940)/WO/74/2015-16
Dated: 06.05.2015

Date of Test : 17.11.2015

Technical Reference : IS: 1786-2008



Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm ²	Tensile strength (Ultimate stress) N/mm ²	Elongation percent gauge length		
1	10	0.62	514	557	13.35	O.K	O.K



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17.11.2015

TEST REPORT ON REINFORCEMENT STEEL

Customer : **Asst. Executive Engineer**, Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Mr. N. Keerthi**,
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Date of Test : 17.11.2015

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Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm ²	Tensile strength (Ultimate stress) N/mm ²	Elongation percent gauge length		
1	16	1.58	520	563	13.55	O.K	O.K

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Job No.: CTCE/BBMP/W.No.11/NK/CSR-11/993r/CUBE/2015-16

22.12.2015

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

- * **Customer** : Asst. Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
- * **Agency** : **Mr. N. Keerthi**,
#66, Anandappa Building Hospital road, Yelahanka, Bangalore – 64.
- * **Name of the work** : Development and concrete road works at Naidu Layout in Ward No.11 (Kuvempunagara), Vidyaranyapura Sub Division, BBMP, Bangalore.
- * **Reference** : EE/BTP/BBMP/E-PMT/10(16940)/WO/74/2015-16 Dated: 06.05.2015
- * **Sample ID** : Culvert Deck Slab Concrete
- Size of cubes** : 150mmx150mmx150mm
- Cross Sectional Area** : 22500 mm²
- Technical Reference** : IS: 516-1959 (Reaffirmed 2008)
- * **Grade of Concrete** : M₂₀
- Compressive Strength as on** : 28th day
- Sample Received on** : 22.12.2015



Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	24.11.2015	22.12.2015	8.187	482.3	21.44
2	24.11.2015	22.12.2015	8.226	499.5	22.20
3	24.11.2015	22.12.2015	8.342	512.7	22.79

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- * **Reference** : EE/BTP/BBMP/E-PMT/10(16940)/WO/74/2015-16 Dated: 06.05.2015
- * **Sample ID** : Road Concrete
- Size of cubes** : 150mmx150mmx150mm
- Cross Sectional Area** : 22500 mm²
- Technical Reference** : IS: 516-1959 (Reaffirmed 2008)
- * **Grade of Concrete** : M₂₀
- Compressive Strength as on** : 28th day
- Sample Received on** : 22.12.2015



Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	24.11.2015	22.12.2015	8.135	492.3	21.88
2	24.11.2015	22.12.2015	8.290	512.2	22.76
3	24.11.2015	22.12.2015	8.365	526.3	23.39

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- * **Reference** : EE/BTP/BBMP/E-PMT/10(16940)/WO/74/2015-16 Dated: 06.05.2015
- * **Sample ID** : Road Concrete
- Size of cubes** : 150mmx150mmx150mm
- Cross Sectional Area** : 22500 mm²
- Technical Reference** : IS: 516-1959 (Reaffirmed 2008)
- * **Grade of Concrete** : M₂₀
- Compressive Strength as on** : 28th day
- Sample Received on** : 22.12.2015



Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	24.11.2015	22.12.2015	8.099	485.5	21.58
2	24.11.2015	22.12.2015	8.180	492.6	21.89
3	24.11.2015	22.12.2015	8.226	512.4	22.77

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- * **Reference** : EE/BTP/BBMP/E-PMT/10(16940)/WO/74/2015-16 Dated: 06.05.2015
- * **Sample ID** : Road Concrete
- Size of cubes** : 150mmx150mmx150mm
- Cross Sectional Area** : 22500 mm²
- Technical Reference** : IS: 516-1959 (Reaffirmed 2008)
- * **Grade of Concrete** : M₂₀
- Compressive Strength as on** : 28th day
- Sample Received on** : 23.12.2015



Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	25.11.2015	23.12.2015	8.125	482.3	21.44
2	25.11.2015	23.12.2015	8.265	506.5	22.51
3	25.11.2015	23.12.2015	8.392	526.8	23.41

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- * **Reference** : EE/BTP/BBMP/E-PMT/10(16940)/WO/74/2015-16 Dated: 06.05.2015
- * **Sample ID** : Road Concrete
- Size of cubes** : 150mmx150mmx150mm
- Cross Sectional Area** : 22500 mm²
- Technical Reference** : IS: 516-1959 (Reaffirmed 2008)
- * **Grade of Concrete** : M₂₀
- Compressive Strength as on** : 28th day
- Sample Received on** : 23.12.2015



Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	25.11.2015	23.12.2015	8.125	499.6	22.20
2	25.11.2015	23.12.2015	8.227	514.6	22.87
3	25.11.2015	23.12.2015	8.382	529.6	23.54

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- * **Reference** : EE/BTP/BBMP/E-PMT/10(16940)/WO/74/2015-16 Dated: 06.05.2015
- * **Sample ID** : Road Concrete
- Size of cubes** : 150mmx150mmx150mm
- Cross Sectional Area** : 22500 mm²
- Technical Reference** : IS: 516-1959 (Reaffirmed 2008)
- * **Grade of Concrete** : M₂₀
- Compressive Strength as on** : 28th day
- Sample Received on** : 24.12.2015



Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	26.11.2015	24.12.2015	8.135	502.2	22.32
2	26.11.2015	24.12.2015	8.292	513.5	22.82
3	26.11.2015	24.12.2015	8.398	528.9	23.51

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- * **Sample ID** : Road Concrete
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- Cross Sectional Area** : 22500 mm²
- Technical Reference** : IS: 516-1959 (Reaffirmed 2008)
- * **Grade of Concrete** : M₂₀
- Compressive Strength as on** : 28th day



Sample Received on : 24.12.2015

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	26.11.2015	24.12.2015	8.238	480.3	21.35
2	26.11.2015	24.12.2015	8.368	490.8	21.81
3	26.11.2015	24.12.2015	8.356	513.7	22.83

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